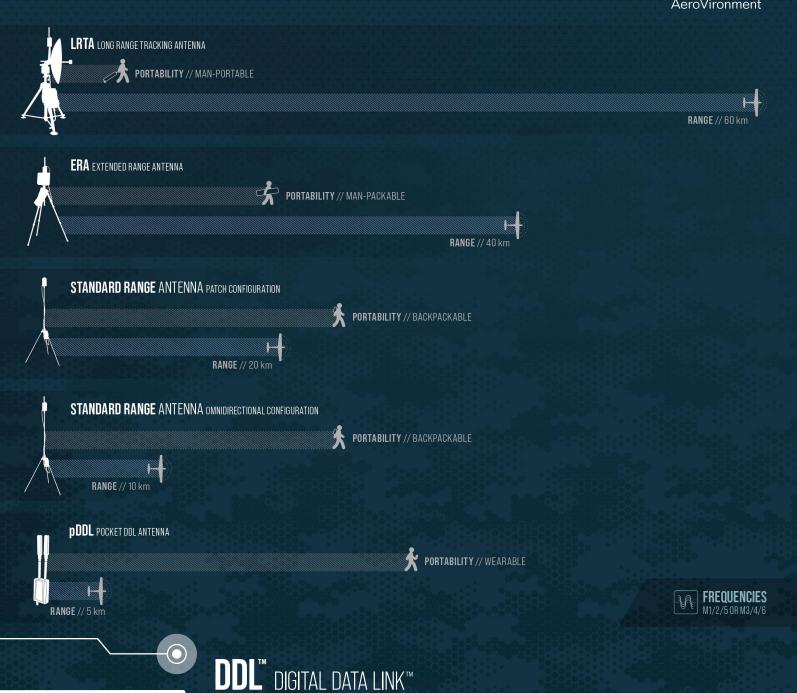
# **DDL NETWORK ANTENNAS**





AeroVironment's Digital Data Link (DDL) is a small, lightweight, broadband digital network module enabling enhanced command and control of small UAS. DDL is IP-based, allowing maximum flexibility and interoperability between small airborne and ground systems with limited power and bandwidth to maximize the number of systems that can operate in a given area. DDL is compatible with AeroVironment's network connectivity solutions and antennas, providing command and control ranges that extend from the wearable, short-range pDDL (5 km) to the Long Range Tracking Antenna (60 km).

# Maximum Flexibility and Interoperability

## **SPECIFICATIONS (MODULES)**

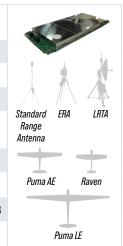
### MINI DDL MODULE

SIZE	1.95 in x 2.35 in x 0.35 in (49 mm x 59 mm x 8.9 mm)
WEIGHT	0.99 oz (28 g)
TX POWER	2 W
RX SENSITIVITY	-93 dBm
POWER Consumption	9 W at 1 W T X
OPERATING VOLTAGE	5.5-16 V
DATA RATE	4.5 Mbps
INTERFACES	LVDS/USB
OPERATING BANDS	M1/2/5 or M3/4/6



#### **BASE DDL MODULE**

(52 mm x 127 mm	
<b>WEIGHT</b> 2.1 oz (60 g)	
TX POWER 1W	
RX SENSITIVITY -93 dBm	<u> </u>
POWER CONSUMPTION 10 W at 1 W TX	Standard E Range Antenna
OPERATING VOLTAGE 5.5-9 V	
DATA RATE 4.5 Mbps	Puma AE
INTERFACES Ethernet/RS-232	2/RS 485/USB
OPERATING BANDS M1/2/5 or M3/4/	6 PL



**SPECIFICATIONS** (ANTENNAS)









**DEPLOYED ANTENNA** SIZE & WEIGHT

4 in x 2.25 in x 0.75 in [10.2 cm x 5.7 cm x 1.9 cm] Weight: 7.1 oz (201 g)

Height: 6.5 ft (2 m) Base Diameter: 3 ft (0.9 m) M1/2/5 and M3/4/6 weight:

3 lb (1.3 kg)

M1/2/5: 4.4 in x 2.8 in x 10.1 in [11.2 cm x 7.1 cm x 25.7 cm] M3/4/6: 4.4 in x 2 in x 10.1 in [11.2 cm x 5.1 cm x 25.7 cm]

M1/2/5 and M3/4/6 weight: 1.6 lb (732 g)

Height: 4.25-7 ft (1.3-2.2 m) Base Diameter: 3.75-8.2 ft (1.1-2.5 m)

Weight: 10.8 lb (4.9 kg) Note: excludes the GCS RF Head, hub and system battery

M1/2/5 height: 5.8-9.4 ft (1.8-2.9 m) M3/4/6 height: 5.25-8.8 ft (1.6-2.7 m) Base Diameter: 5.3 ft (1.6 m) M1/2/5 weight: 304 lb (138 kg)

M3/4/6 weight: 300 lb (136 kg)

12.25 in x 12.25 in x 5 in (31.1 cm x 31.1 cm x 12.7 cm)

Note: Used in conjunction with

-98 dBm @ 2 Mbps

-93 dBm @ 6 Mbps

**ANTENNA ARRAY UNIT** SIZE & WEIGHT

-98 dBm @ 2 Mbps **RX SENSITIVITY** -93 dBm @ 6 Mbps

4.5 Mbps

MPEG2 or H264 SD

M1/2/5 or M3/4/6

POWER CONSUMPTION 9 W **OPERATING VOLTAGE** 5.5-16 V

**SUPPORTED** COMPRESSION

**OPERATING BANDS** 

**DATA RATE** 

**INTERFACES ENCRYPTION** AES-128/AES-256 -98 dBm @ 2 Mbps -93 dBm @ 6 Mbps

5.5-16 V 4.5 Mbps

20 W

MPEG2 or H264 SD Ethernet/RS-232/RS-485 AES-128/AES-256

M1/2/5 or M3/4/6

Weight: 3.7 lb (1.7 kg)

the Standard Range Antenna -98 dBm @ 2 Mbps

-93 dBm @ 6 Mbps 20 W (pass through, not additional)

M1/2/5 or M3/4/6

275 W (nom., heater off) 460 W (max., heater on) 5.5-16 V 90-250 V ac, 47-65 Hz

4.5 Mbps 4.5 Mbps MPEG2 or H264 SD MPEG2 or H264 SD

Ethernet/RS-232/RS-485 Ethernet/RS-232/RS-485 AES-128/AES-256

AES-128/AES-256 M1/2/5 or M3/4/6

AeroVironment<sup>®</sup>